

SAFE

I CLAIM:

1. A safe comprising:

- 2 an enclosure including
 - a frame having a top, bottom, front, and back; said front of said frame
- 4 having an opening therein; said frame including:
 - a hinge side wall having a length; and
 - 6 a latch side wall opposing said hinge side wall and having a length;
- and
- 8 a door movable between closed and open positions including:
 - an outer face; and
 - 10 an inner face; said inner face in the closed door position for
- covering said opening of said front of said frame;
- 12 a hinge within said enclosure hingedly connecting said door to said hinge side
- wall for opening and closing said door;
- 14 a latch for holding said door in the closed position including:
 - finger means including:
 - 16 catch means; said finger means connected to said inner face of said
 - door and projecting rearward such that said catch means is disposed within said enclosure
 - 18 along substantially the length of said latch side wall with said door in the closed position;
 - a latch plate including:
 - 20 engaging means; said latch plate mounted to said frame within said
 - enclosure adjacent substantially the length of said latch side wall; said latch plate
 - 22 movable between a latching position wherein said engaging means engages said catch
 - means of said finger means along substantially the length of said latch side wall with said
 - 24 door in the closed position such that said door cannot open and an unlatching position
 - wherein said engaging means does not engage said catch means;

26 latch plate moving means connected to said latch plate for moving said
latch plate between the latching position and the unlatching position; said moving means
28 actuated from external said enclosure; and
locking means including:
30 a main bolt mounted to said frame within said enclosure; said bolt
movable between a locking position wherein said bolt engages said latch plate such that
32 said latch plate cannot move to the unlatching position and an unlocking position wherein
said main bolt does not prevent said latch plate from moving to the unlatching position;
34 main bolt moving means for moving said main bolt between the locking
position and the unlocking position; said main bolt moving means accessed from external
36 said frame; and
a first lock including:
38 a bolt; and
lock actuation means; said first lock mounted to said frame and
40 actuated by said first lock actuation means from external said frame between a locking
position wherein said first lock bolt engages said main bolt such that said main bolt
42 cannot move from the locking position to an unlocked position wherein said first lock
bolt does not prevent said main bolt from moving to the unlocked position.

2. The safe of Claim 1 wherein said first lock is a key lock and said actuation means is a
2 keyway through said frame

3. The safe of Claim 1 wherein said latch plate moving means, said main bolt moving
2 means, and said first lock actuation means act through said latch side wall.

4. The safe of Claim 1 further including:
2 a second lock including:
a bolt; and
4 lock actuation means; said second lock mounted to said frame and
actuated by said second lock actuation means from external said frame between a locking
6 position wherein said second lock bolt engages said main bolt such that said main bolt

cannot move from the locking position to an unlocked position wherein said second lock
8 bolt does not prevent said main bolt from moving to the unlocked position.

5. The safe of Claim 4 wherein said second lock is electronic and actuated by a remote
2 control.

6. The safe of Claim 4 wherein said second lock is electronic and actuated by a keypad
2 on the outside of said frame.

7. A wall safe for disposition in a wall; said safe comprising:

2 an enclosure including

a frame having a top, bottom, front, and back and having a back portion
4 for disposition in the wall and a front portion; said front of said frame having an opening
therein; said frame including:

6 securing means for securing said frame in a wall;

a hinge side wall having a length; and

8 a latch side wall opposing said hinge side wall and having a length;

and

10 a door movable between closed and open positions including:

an outer face; and

12 an inner face; said inner face in the closed door position for

covering said opening of said front of said frame;

14 a hinge within said enclosure hingedly connecting said door to said hinge side
wall for opening and closing said door;

16 a latch for holding said door in the closed position including:

finger means including:

18 catch means; said finger means connected to said inner face of said
door and projecting rearward such that said catch means is disposed within said enclosure
20 along substantially the length of said latch side wall with said door in the closed position;

a latch plate including:

22 engaging means; said latch plate mounted to said frame within said
enclosure adjacent substantially the length of said latch side wall; said latch plate
24 movable between a latching position wherein said engaging means engages said catch
means of said finger means along substantially the length of said latch side wall with said
26 door in the closed position such that said door cannot open and an unlatching position
wherein said engaging means does not engage said catch means;
28 latch plate moving means for moving said latch plate between the latching
position and the unlatching position; said moving means actuated from external said
30 enclosure; and
locking means including:
32 a main bolt mounted to said frame within said enclosure; said bolt
movable between a locking position wherein said bolt engages said latch plate such that
34 said latch plate cannot move to the unlatching position and an unlocking position wherein
said main bolt does not prevent said latch plate from moving to the unlatching position;
36 main bolt moving means for moving said main bolt between the locking
position and the unlocking position; said main bolt moving means accessed from external
38 said frame; and
a first lock including:
40 a bolt; and
actuation means; said first lock mounted to said frame and actuated
42 by said actuation means from external said frame between a locking position wherein
said first lock bolt engages said main bolt such that said main bolt cannot move from the
44 locking position to an unlocked position wherein said first lock bolt does not prevent said
main bolt from moving to the unlocked position.

8. The safe of Claim 7 wherein said first lock is a key lock and said actuation means is a
2 keyway through said frame.

9. The safe of Claim 7 wherein said latch plate moving means, said main bolt moving
2 means, and said first lock actuation means act through said latch side wall

10. The safe of Claim 7 further including:

2 a second lock including:

 a bolt; and

4 lock actuation means; said second lock mounted to said frame and
actuated by said second lock actuation means from external said frame between a locking
6 position wherein said second lock bolt engages said main bolt such that said main bolt
cannot move from the locking position to an unlocked position wherein said second lock
8 bolt does not prevent said main bolt from moving to the unlocked position.

11. The safe of Claim 10 wherein said second lock is electronic and actuated by a remote
2 control.

12. The safe of Claim 10 wherein said second lock is electronic and actuated by a keypad
2 on the outside of said frame.

13. In combination:

2 a wall having a front including:

 framing including:

4 a pair of spaced wall studs;

 a wall safe comprising:

6 an enclosure including

 a frame having a top, bottom, front, and back and a width equal to
8 the lateral spacing of said wall studs, and having a back portion for retention in said wall;
said front of said frame having an opening therein; said frame including

10 a hinge side wall having a length; and

 a latch side wall opposing said hinge side wall and having a
12 length; and

 a door movable between closed and open positions including:

14 an outer face; and

 an inner face; said inner face in the closed door position for
16 covering said opening of said front of said frame;

securing means for securing said wall safe to said wall framing;

18 a hinge within said enclosure hingedly connecting said door to said hinge
side wall for opening and closing said door;

20 a latch for holding said door in the closed position including:
finger means including:

22 catch means; said finger means connected to said inner face
of said door and projecting rearward such that said catch means is disposed within said
24 enclosure along substantially the length of said latch side wall with said door in the
closed position;

26 a latch plate including:
engaging means; said latch plate mounted to said frame
28 within said enclosure adjacent substantially the length of said latch side wall; said latch
plate movable between a latching position wherein said engaging means engages said
30 catch means of said finger means along substantially the length of said latch side wall
with said door in the closed position such that said door cannot open and an unlatching
32 position wherein said engaging means does not engage said catch means;

latch plate moving means for moving said latch plate between the
34 latching position and the unlatching position; said moving means actuated from external
said enclosure; and

36 locking means including:
a main bolt mounted to said frame within said enclosure; said bolt
38 movable between a locking position wherein said bolt engages said latch plate such that
said latch plate cannot move to the unlatching position and an unlocking position wherein
40 said main bolt does not prevent said latch plate from moving to the unlatching position;

main bolt moving means for moving said main bolt between the
42 locking position and the unlocking position; said main bolt moving means accessed from
external said frame; and

44 a first lock including:
a bolt; and

46 actuation means; said first lock mounted to said frame and
actuated by said actuation means from external said frame between a locking position

48 wherein said first lock bolt engages said main bolt such that said main bolt cannot move
from the locking position to an unlocked position wherein said first lock bolt does not
50 prevent said main bolt from moving to the unlocked position.

14. The combination of Claim 13 wherein said latch plate moving means, said main bolt
2 moving means, and said first lock actuation means act through said latch side wall.

15. The combination of Claim 13 further including:
2 a second lock including:
a bolt; and
4 lock actuation means; said second lock mounted to said frame and
actuated by said second lock actuation means from external said frame between a locking
6 position wherein said second lock bolt engages said main bolt such that said main bolt
cannot move from the locking position to an unlocked position wherein said second lock
8 bolt does not prevent said main bolt from moving to the unlocked position.

16. The combination of Claim 15 wherein said second lock is electronic; and wherein
2 said latch plate moving means, said main bolt moving means, and said first lock actuation
means act through said latch side wall.

17. The combination of Claim 15 wherein said second lock is electronic and actuated by
2 a remote control.

18. The combination of Claim 15 wherein said second lock is electronic and actuated by
2 a keypad on the outside of said frame.

19. The combination of Claim 13 wherein said hinge side wall and said latch side wall
2 are horizontal.

20. The combination of Claim 18 wherein said hinge side wall is below said latch side
2 wall.

21. The combination of Claim 18 further including stop means for preventing said door
2 from opening past a desired point.